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### LAWN WASTE BAG HOLDER

### FIELD OF THE INVENTION

The present invention in general relates to a lawn waste bag holder and in particular to a lawn waste bag holder adapted to receive material from a mechanical collector sack.

#### BACKGROUND OF THE INVENTION

Mechanical lawn mowers and leaf vacuums have greatly eased the burden of lawn care. While some individuals compost yard waste, the vast majority of yard waste is packaged in paper bags and, to a lesser extent, plastic bags. The act of emptying yard waste from a mechanical collector sack into a yard waste bag represents a source of inefficiency. Since the relative size of the opening in a mechanical collector sack is typically greater than the diameter of a lawn waste bag, it is common for yard waste to be spilled onto the ground in the course of yard waste transfer. The collection of this yard waste spillage becomes a significant portion of the time spent performing the overall yard cleanup task.

A still further problem associated with prior art attempts to stabilize a yard disposal bag involves the storage of assemblies that are awkward to store, difficult to assemble, or afford inadequate support for the yard waste bag. Conventional support devices have suffered to varying degrees some or all of these limitations. Thus, there exists a need for a yard waste bag loading device incorporating a funnel large enough

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to accommodate a mechanical collector sack output along with convenient disassembly and storage.

### SUMMARY OF THE INVENTION

A yard waste bag loading assembly includes a base having dimensions able to accommodate a yard waste bag therein, the yard waste bag having a given opening size. A plurality of vertical supports extend from the base to a height necessary to accommodate the yard waste bag. A funnel is hingeably secured to the tops of the vertical supports. The funnel has a mouth greater than the bag opening size. The components of the loading assembly are readily formed from tubular plastic pieces, elbow fittings and tee fittings to facilitate easy breakdown and storage.

# BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a perspective view of a yard waste bag loading assembly according to the present invention with the funnel portion swung clear of a yard waste bag located within the assembly and shown herein in ghost;

Figure 2 is an exploded view of the inventive yard waste bag loading assembly shown in Figure 1; and

Figure 3 is a view of an alternate embodiment of an inventive assembly suitable for internal mounting of a base wheel.

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## DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

The present invention has utility in loading a yard waste bag with a yard waste collection tool or mechanical collector that has a dimension greater than the opening size of the yard waste bag. A base having vertical supports terminates in a funnel that overlies a yard waste bag placed within an inventive assembly where the mouth of the funnel has a dimension greater than the bag opening size thereby leading to considerably less yard waste spillage in the course of bag loading. Hingeable attachment of the funnel to the remainder of the assembly facilitates bag removal and replacement. While the present invention is detailed with respect to a preferred embodiment having structural components formed of conventional polyvinyl chloride plumbing pieces, it is appreciated that an inventive assembly structural component is readily formed from a material illustratively including steel rod, steel tubing, aluminum tubing, and injection moldable thermoplastics. aluminum rod. Additionally, while the embodiment depicted in the figures shows an inventive assembly having a rectilinear base and hexagonal funnel, it is appreciated that the base configuration and funnel configuration are each independently selected from circular, triangular, square, rectilinear, and higher side number polygonal forms.

Referring now to the figures, an inventive yard waste bag loading assembly is shown generally at 10. The assembly 10 has a base 12 enclosing a dimension suitable to accommodate a conventional yard waste bag. Preferably, the base 12 is formed of threaded polyvinyl chloride (PVC) pieces. Linear spans of threaded PVC tubing are

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joined with right angle elbow fittings to form the base 12. While the base 12 is depicted as a closed square form, it is appreciated that the shape of the base is readily varied. Additionally, it is appreciated that forming a base of an inventive loading assembly from a different aforementioned construction material allows one to form an open-sided base structure. Optionally, a base 12 is modified to support the attachment of at least one wheel 18. As depicted in the figures, a pair of wheels 18 are mounted to the base 12 by drilling an axle hole through opposing elbow fittings 14a and 14b. An axle 20 extends the distance between 14a and 14b elbow fittings and wheels are mounted to the exposed ends of the axle 20.

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In an alternate embodiment depicted in Figure 3, the base side defined by terminal elbow fittings 14a and 14b has a gap therein 22 bounded by end cap fittings 24a and 24b. In the embodiment depicted in Figure 3, end caps 24a and 24b are drilled to mount an axle 26 supporting a wheel 28.

Optionally, a bag support screen 30 is supported within the base 12.

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The base 12 includes on at least two sides tee fittings 32. The tee fittings 32 serve to anchor vertical supports 34 that extend a height suitable to accommodate a yard waste bag. A funnel sub-assembly 36 rests on the supports 34 to complete an inventive bag loading assembly. In the preferred embodiment depicted in Figures 1 and 2, two supports 34 extend from the base side defined by elbows 14a and 14b to form a pivot point. The hinge pivot point is formed by terminating a support 34 with a tee fitting 38. A funnel assembly having a diameter adapted to rotate within the tee

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fitting 38 affords a hingeable funnel assembly that is optionally rotatable out of an overlying orientation relative to the base 12. Longitudinally sectioning a tee fitting on the other supports 34 forms a cradle 40 to support the funnel assembly 36 in a position overlying the base 12. While the preferred embodiment depicted in Figures 1 and 2 shows a funnel sub-assembly hingeably attached to supports, it is appreciated that two opposing cradle supports are all that is essential to retain a funnel sub-assembly in an operative orientation to fill the yard waste bag. Additionally, while the funnel sub-assembly hinge is depicted in Figures 1 and 2 as a pair of spaced tee fittings 38, it is appreciated that only a single support 34 terminating in a single tee fitting 38 on the side defined by elbow fittings 14a and 14b is sufficient to perform the functions thereof.

A funnel assembly 36 has a rigid frame 42 from which is suspended a fabric wall 44. Preferably, the fabric wall terminates in a rigid or semi-rigid spout 46. The frame 42 as depicted in Figures 1 and 2 is hexagonal in shape and formed of threaded PVC tubing sections 48 interspersed with sixty degree elbow joints 50. In order to retain the frame 42 in a fixed position relative to the tee fitting 38, the frame side 52 complementary to the tee fitting 38 includes a short tee fitting 54 that maintains the relative position of the frame 42 relative to the tee fitting 38. The frame 42 is preferably sized such that the cradle 40 supports at least one nonadjacent side of the hexagonal frame 42. As a result, the side opposite 52 or one of the other two nonadjacent sides relative to 52 contacts a support. Preferably, both nonadjacent

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sides adjoining the adjacent sides relative to side 52 engage support mounted cradles 40. The fabric wall 44 is secured to the frame 42 by conventional means illustratively including stitching, hook-and-loop fasteners, grommets, a zipper, and an elastomeric piping. The fabric wall is formed of materials illustratively including canvas, nylon, and flexible plastic sheeting. Preferably, the inner portion of the fabric wall 44 is secured by a conventional technique to a rigid or semi-rigid spout 46. The spout is illustratively formed of plastic sheeting, cardboard, sheet metal, and stiffened fabric. The spout 46 is dimensioned to insert within the yard waste bag opening. The spout 46 is attached to the fabric wall by conventional techniques illustratively including stitching, adhesives, grommets and the like.

While the present invention has been described herein in the most practical and preferred embodiment, it is appreciated that one skilled in the art upon reading the above description will readily appreciate modifications and variations that nonetheless remain within the scope and spirit of the invention. It is intended that these modifications and variations are interpreted as being within the scope of the appended claims.